

## CLAIMS

1. An electrolyte material for a fuel cell having a proton conductive system at least comprising (a) a Brönsted acid and (b) a base having a lone  
5 electron-pair, characterized in that

the base (b) has a structure in which one or more groups are added to a group having the lone electron-pair, and a total number of constitutional atoms other than H atom included in all the added group is three or less.

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2. An electrolyte material for a fuel cell according to claim 1, wherein the Brönsted acid (a) is a compound having a sulfonic acid group.

3. An electrolyte material for a fuel cell according to claim 1 or 2,  
15 wherein

the base (b) is a base having a molecular weight of 300 or less.

4. An electrolyte material for a fuel cell according to claim 3, wherein the base having the molecular weight of 300 or less comprises at  
20 least one kind of base having a structure in which one or more groups are added to a compound selected from a group consisting of imidazole, pyrazole, triazole, pyridine, pyrazine, pyrimidine and pyridazine, and a total number of constitutional atoms other than H atom included in all the added group is three or less.

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5. An electrolyte material for a fuel cell according to any one of claims 1 to 4, wherein

the group to be added to the group having the lone electron-pair is at least one kind selected from: a hydrocarbon group having 3 or less carbon atoms; a hydroxyl group-containing hydrocarbon group having 3 or less in a total number of carbon and oxygen atoms; a carbonyl group; a carboxyl  
5 group; an amino group; an imino group; a nitro group; and an amide group.